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**CERTIFICATE OF QUALITY** 

Product: PIPES, FREE ACID (Piperazine-N-N'-bis(2-Ethane Sul

Grade: HIGH PURITY GRADE

**Code:** 0488

Appearance: White crystalline powder, free flowing

Mol. Formula: C8H18N2O6S2

Mol. Weight: 302.37

**Description:** 

Assay:	<u>Min</u>		<u>Max</u>	<u>Units</u>	<b>Disposition</b>
Abs.@260nm (1%, 1N NaOH)			0.05		PASS
DNase			NONE	P/F	PASS
Heavy Metals (as Pb)		<	5	ppm	PASS
рКа	6.7		6.9		PASS
Protease			NONE	P/F	PASS
Purity	98.0			%	PASS
Residue after Ignition			0.3	%	PASS
RNase			NONE	P/F	PASS
Solubility (1%, 1N NaOH)	PASS				PASS

Storage: Store at room temperature. Protect from moisture.

0488HPG This signature indicates that the above material has met all quality

specifications and has been reviewed by a quality representative.

Signature: You Crocke

Title: QC MANAGER Date: 6/22/2012